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United States Department of Agriculture

AGRICULTURAL MARKETING SERVICE COTTON DIVISION

SERVICE AND REGULATORY ANNOUNCEMENT NO. A.M.S. 180

COTTON AND COTTON LINTERS STANDARDS

(Title 7, Ch. I, Parts 27 and 28, Sections 27.210-27.213 and 28.201-28.594
of the Code of Federal Regulations)

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SUMMARY OF COTTON AND COTTON LINTERS STANDARDS

NOTE: The standards marked with an asterisk (*) are descriptive. The others are represented in physical form.

Official Cotton Standards Of The United States For Length Of Staple

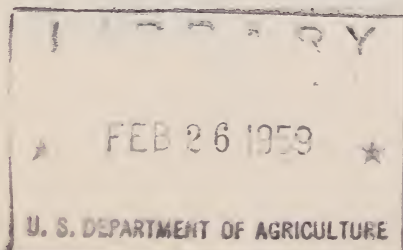
(All American cottons)

Inches:

*Below 13/16
13/16
7/8
29/32
15/16
31/32
1
1-1/32
1-1/16
1-3/32
1-1/8
1-5/32

Inches:

1-3/16
1-7/32
1-1/4
*1-9/32
1-5/16
*1-11/32
1-3/8 (types for American Upland and American Egyptian)
*1-13/32
1-7/16 (types for American Egyptian only)



Inches:

- *1-15/32
- 1-1/2 (types for American Egyptian and Sea Island only)
- *1-17/32
- 1-9/16 (types for American Egyptian and Sea Island only)
- *1-19/32
- 1-5/8 (types for American Egyptian and Sea Island only)

Inches:

- *1-21/32
- *1-11/16
- *1-23/32
- 1-3/4 (types for American Egyptian and Sea Island only) and upward in steps of 1/32 inch. (No types above 1-3/4 inches)

Official Cotton Standards of the United States
For The Grade of American Upland Cotton--
UNIVERSAL STANDARDS

White Cotton

- *Strict Good Middling
- Good Middling
- Strict Middling
- Middling
- Strict Low Middling
- Low Middling
- Strict Good Ordinary
- Good Ordinary

Grade Symbol

- SGM
- GM
- SM
- Mid
- SLM
- LM
- SGO
- GO

Spotted Cotton

- *Good Middling Spotted
- *Strict Middling Spotted
- *Middling Spotted
- *Strict Low Middling
- *Low Middling

- GM Sp
- SM Sp
- Mid Sp
- SLM Sp
- LM Sp

Tinged Cotton

- *Good Middling Tinged
- Strict Middling Tinged
- Middling Tinged
- Strict Low Middling Tinged
- Low Middling Tinged

- GM Tg
- SM Tg
- Mid Tg
- SLM Tg
- LM Tg

Yellow Stained Cotton

- *Good Middling Yellow Stained
- *Strict Middling Yellow Stained
- *Middling Yellow Stained

- GM YS
- SM YS
- Mid YS

Gray Cotton

- *Good Middling Gray
- *Strict Middling Gray
- *Middling Gray
- *Strict Low Middling Gray

- GM Gray
- SM Gray
- Mid Gray
- SLM Gray

Official Cotton Standards Of The United States
For The Grade Of American Egyptian Cotton

- Grade No. 1
- Grade No. 2
- Grade No. 3
- Grade No. 4
- Grade No. 5

- Grade No. 6
- Grade No. 7
- Grade No. 8
- Grade No. 9
- *Grade No. 10

Official Cotton Standards Of The United States
For The Grade of Sea Island Cotton

Grade No. 1	Grade No. 4
*Grade No. 1-1/2	*Grade No. 4-1/2
Grade No. 2	Grade No. 5
*Grade No. 2-1/2	*Grade No. 5-1/2
Grade No. 3	Grade No. 6
*Grade No. 3-1/2	*Below Grade No. 6

Tentative Standards For The Preparation of Long-Staple Cotton

(1-1/8 inches or more in length of staple)

No. 4, or Strict Middling - A Preparation
No. 4, or Strict Middling - B Preparation
No. 4, or Strict Middling - C Preparation.
No. 5, or Middling - A Preparation.
No. 5, or Middling - B Preparation.
No. 5, or Middling - C Preparation.
No. 6, or Strict Low Middling - A Preparation.
No. 6, or Strict Low Middling - B Preparation.
No. 6, or Strict Low Middling - C Preparation.

Official Cotton Standards of the United States
For Fiber Fineness and Maturity

These standards are shown on page 14 of this bulletin. The standards apply only for purposes of making official determinations of fiber fineness and maturity by the Micronaire instrument on cotton delivered in settlement of cotton futures contracts.

Official Cotton Linters
Standards Of The United States
For Grade

Grade 1
Grade 2
Grade 3
Grade 4
Grade 5
Grade 6
Grade 7
*Chemical Grade

Official Cotton Linters
Standards Of The United States
For Staple

Staple 1
Staple 2
Staple 3
Staple 4
Staple 5
Staple 6
Staple 7
*Below 7 Staple

HOW TO OBTAIN STANDARDS

INFORMATION CONCERNING PRICES AND APPLICATION FORMS
FOR ORDERING COPIES OF THE STANDARDS REPRESENTED IN
PHYSICAL FORM MAY BE OBTAINED AT THE FOLLOWING
ADDRESS:

Cotton Division
Agricultural Marketing Service
U. S. Department of Agriculture
Washington 25, D. C.

TENDERABILITY OF COTTON ON FUTURES CONTRACTS

Pursuant to cotton futures provisions of the Internal Revenue Code of 1954 the New York Cotton Exchange, New Orleans Cotton Exchange, and Chicago Board of Trade have provided that cotton deliverable in settlement of cotton futures contracts shall be as follows:

1. Growth must be of United States.
2. Micronaire reading must be 3.5 or higher.
3. Staple length must be 29/32 inch or longer.
4. Grades must be among those enclosed with heavy black line.

Gray	White	Spotted	Tinged	Yellow Stained
	*Strict Good Middling			
*GM Gray	Good Middling	*GM Sp	*GM Tg	*GM YS
*SM Gray	Strict Middling	*SM Sp	SM Tg	*SM YS
*Mid Gray	Middling	*Mid Sp	Mid Tg	*Mid YS
*SLM Gray	Strict Low Middling	*SLM Sp	SLM Tg	
	Low Middling	*LM Sp	LM Tg	
	Strict Good Ordinary			
	Good Ordinary			

*Descriptive Grades

5. Non-Rain Grown cotton is deliverable without discrimination but must be identified as such when application for certification is made to the Joint Cotton Inspection Bureau.

6. Special condition or irregular cotton falling within any of the following categories is not deliverable:

- (a) Bales weighing under 300 pounds or over 700 pounds.
- (b) Bales that have been on fire.
- (c) Bales of high density cotton or bales of cotton which previously have been compressed to high density.
- (d) Bales reduced in grade or staple length for any reason.
- (e) Bales containing cotton that is of immature or perished staple or that is gin-cut or reginned.
- (f) Bales that have been repacked, false packed, mixed packed, or water packed.
- (g) Bales with sisal bagging.

UNIVERSAL STANDARDS FOR UNITED STATES UPLAND COTTON

The Official Cotton Standards of the United States for the Grade of American Upland Cotton are also called Universal Standards. The United States Department of Agriculture has entered into the Universal Cotton Standards Agreement with 14 cotton associations and exchanges in 10 major foreign cotton importing and consuming countries. The Agreement provides for (1) the adoption, use, and observance of the Universal Standards in the classification of United States upland cotton, (2) the arbitration or settlement of disputes with respect to such classification, and (3) the preparation, distribution, and protection of key copies of the Universal Standards. The cotton associations and exchanges in the United

States participate fully in the cotton standards work conducted pursuant to the Agreement but are not signatory members. The following cotton associations and exchanges in foreign countries are signatories to the Agreement:

Centro Algodonero Nacional--Barcelona, Spain
Bremer Baumwollbörse--Bremen, Germany
Marché De Coton De Gand--Ghent, Belgium
Association Du Marché Des Cotons Au Havre--Le Havre, France
All Japan Cotton Spinners' Association,--Osaka, Japan
Japan Cotton Traders' Association--Osaka, Japan
Osaka Sampin Exchange--Osaka, Japan
Liverpool Cotton Association, Ltd.--Liverpool, England
Federation of Master Cotton Spinners' Associations, Ltd.--Manchester, England
Manchester Cotton Association, Ltd.--Manchester, England
Associazione Cotoniera Italiana--Milan, Italy
De Vereeniging Voor Den Katoenhandel--Rotterdam, The Netherlands
East India Cotton Association--Bombay, India
Gdynia Cotton Association--Gdynia, Poland

FIELD TRIAL FOR SPOTTED GRADES OF UPLAND COTTON

During the revision of the Official Cotton Standards of the United States for the Grade of American Upland Cotton (Universal Standards) in 1952 some groups recommended that the standards for the grades Strict Middling Spotted, Middling Spotted, Strict Low Middling Spotted, and Low Middling Spotted be changed from physical standards to descriptive standards. Other groups recommended that these grades remain as descriptive standards. A decision was made to continue these grades as descriptive standards. These descriptive standards (see page 9 of this publication) are still in effect.

As a result of recommendations at the 1953 Universal Cotton Standards Conference field trial boxes for Strict Middling Spotted, Middling Spotted, Strict Low Middling Spotted, and Low Middling Spotted were established. The purpose of these field trial boxes is to determine if it is feasible to change the standards for these grades of Spotted cotton from descriptive to physical standards.

AUTHORITY FOR ESTABLISHING, PREPARING AND DISTRIBUTING STANDARDS

Authority for establishing, preparing, and distributing standards for cotton is contained in both the United States Cotton Standards Act and Cotton Futures Provisions of the Internal Revenue Code of 1954 (derived from the United States Cotton Futures Act of August 11, 1916 and related laws).

Authority for standards for cotton linters is contained in the United States Cotton Standards Act.

Authority for the Official Cotton Standards of the United States for Fiber Fineness and Maturity that have been established for cotton futures purposes is contained in Cotton Futures Provisions of the Internal Revenue Code of 1954.

The basic provisions for standards in these laws are shown below:

1. United States Cotton Standards Act, as Amended

7 U.S.C. 56. Establishment of cotton standards; furnishing copies of established standards sold.

The Secretary of Agriculture is authorized to establish from time to time standards for the classification of cotton by which its quality or value may be judged or determined for commercial purposes, which shall be known as the official cotton standards of the United States. Any such standard or change or replacement thereof shall become effective only on and after a date specified in the order of the Secretary of Agriculture establishing the same, which date shall be not less than one year after the date of such order: Provided, That the official cotton standards established, effective August 1, 1923, under the United States Cotton Futures Act shall be at the same time the official cotton standards for the purpose of this chapter unless and until changed or replaced under this chapter. Whenever any standard or change or replacement thereof shall become effective under this chapter, it shall also, when so specified in the order of the Secretary of Agriculture, become effective for the purposes of the United States Cotton Futures Act and supersede any inconsistent standard established under said Act. Whenever the official cotton standards of the United States established under this chapter shall be represented by practical forms, the Department of Agriculture shall furnish copies thereof, upon request, to any person, and the cost thereof, as determined by the Secretary of Agriculture, shall be paid by the person making the request. The Secretary of Agriculture may cause such copies to be certified under the seal of the Department of Agriculture and may attach such conditions to the purchase and use thereof, including provision for the inspection, condemnation, and exchange thereof by duly authorized representatives of the Department of Agriculture, as he may find to be necessary to the proper application of the official cotton standards of the United States.

7 U.S.C. 61. General regulations, investigations, tests, etc., by Secretary.

For the purposes of this chapter the Secretary of Agriculture shall cause to be promulgated such regulations, may cause such investigations, tests, demonstrations, and publications to be made, including the investigation and determination of some practical method whereby repeated and unnecessary sampling and classification of cotton may be avoided, and may cooperate with any department or agency of the Government, any State, Territory, District, or possession, or department, agency, or political subdivision thereof, or any person, as he shall find to be necessary.

2. Cotton Futures Provisions of the Internal Revenue Code of 1954

26 U.S.C. 4854. COTTON STANDARDS

(a) Source and description. Subject to the provisions of section 6 of the Act of March 4, 1923 (42 Stat. 1518; 7 U.S.C. 56), the

Secretary of Agriculture is authorized, from time to time, to establish and promulgate standards of cotton by which its quality or value may be judged or determined, including its grade, length of staple, strength of staple, color, and such other qualities, properties, and conditions as may be standardized in practical form, which, for the purpose of this subchapter, shall be known as the "Official cotton standards of the United States": Provided, That any standard of any cotton established and promulgated under this subchapter by the Secretary of Agriculture shall not be changed or replaced within a period less than one year from and after the date of the promulgation thereof by the Secretary of Agriculture: Provided further, That no change or replacement of any standard of any cotton established and promulgated under this subchapter by the Secretary of Agriculture shall become effective until after one year's public notice thereof, which notice shall specify the date when same is to become effective.

(b) Practical forms.

(1) Preparation, certification, and distribution. The Secretary of Agriculture is authorized and directed to prepare practical forms of the official cotton standards which shall be established by him, and to furnish such practical forms from time to time, upon request, to any person, the cost thereof, as determined by the Secretary of Agriculture, to be paid by the person requesting the same, and to certify such practical forms under the seal of the Department of Agriculture and under the signature of the said Secretary, thereto affixed by himself or by some official or employee of the Department of Agriculture thereunto duly authorized by the said Secretary.

(2) Disposition of receipts from sales. All sums collected by the Secretary of Agriculture for furnishing practical forms under paragraph (1) shall be deposited and covered into the Treasury as miscellaneous receipts.

OFFICIAL COTTON STANDARDS OF THE UNITED STATES FOR LENGTH OF STAPLE

Sec. 28.301 Measurement; humidity; temperature. The length of staple of any cotton shall be the normal length by measurement, without regard to quality or value, of a typical portion of its fibers under a relative humidity of the atmosphere of 65 percent and a temperature of 70° F.

Sec. 28.302 Terms of designation. The length of staple of any cotton shall be designated by that one of the following terms which expresses its measurement in inches and fractions of an inch in accordance with sec. 28.301:

"Below 13/16; 13/16; 7/8; 29/32; 15/16; 31/32; 1; 1-1/32; 1-1/16; 1-3/32; 1-1/8; 1-5/32; 1-3/16; 1-7/32; 1-1/4; 1-9/32; 1-5/16; 1-11/32; 1-3/8; 1-13/32; 1-7/16; 1-15/32; 1-1/2; 1-17/32; 1-9/16; 1-19/32; 1-5/8; 1-21/32; 1-11/16; 1-23/32; 1-3/4; and upward in like manner in gradations of thirty-seconds, disregarding any fraction less than a thirty-second."

Sec. 28.303 Original representations of staple lengths. The lengths of staple designated as 7/8, 15/16, 1, 1-1/32, 1-1/16, 1-3/32, 1-1/8, 1-5/32, 1-3/16, 1-7/32, 1-1/4, 1-5/16, and 1-3/8 inches, respectively, are each represented by a quantity of American upland cotton suitably contained and marked "Original Representation of official cotton standards of the United States (American Upland) Length of Staple", followed in each instance by the appro-

priate designation of staple length and the effective date, August 1, 1929; each of the lengths of staple designated as 13/16, 29/32, and 31/32 inches by a quantity of American Upland cotton similarly marked and followed in each instance by the appropriate designation of staple length and the effective date, August 1, 1933; each of the lengths of staple designated as 1-1/2, 1-9/16, 1-5/8, and 1-3/4 inches by a quantity of American Egyptian cotton suitably contained and marked "Original Representation of official cotton standards of the United States (American Egyptian) Length of Staple", followed in each instance by the appropriate designation of staple length and the effective date, August 1, 1929; each of the lengths of staple designated as 1-3/8 and 1-7/16 inches by a quantity of American Egyptian cotton suitably contained and marked "Original Representation of official cotton standards of the United States (American Egyptian) Length of Staple", followed in each instance by the appropriate designation of staple length and the effective date, August 10, 1943; and each of the lengths of staple designated as 1-1/2, 1-9/16, 1-5/8 and 1-3/4 inches by a quantity of Sea Island cotton suitably contained and marked "Original Representation of official cotton standards of the United States (Sea Island) Length of Staple", followed in each instance by the appropriate designation of staple length and the effective date, August 10, 1939. Said quantities of cotton are to be kept in the custody of the United States Department of Agriculture.

Sec. 28.304 Over 13/16 inch staple. Cotton which is more than thirteen-sixteenths of an inch in length of staple, but is not exactly one of the measurements specified in sec. 28.302, shall be designated by that one of such measurements which comes nearest under its true measurement.

Sec. 28.305 Bale of different staple lengths. Whenever the length of staple of cotton taken from one part of a bale is different from that taken from another part of the same bale, the length of staple of the cotton in such bale shall be that of the part which is the shorter.

OFFICIAL COTTON STANDARDS OF THE UNITED STATES FOR THE GRADE OF AMERICAN UPLAND COTTON

WHITE COTTON

Sec. 28.401 Strict Good Middling. Strict Good Middling shall be American upland cotton which in color, leaf, and preparation is better than Good Middling. This standard is effective on and after August 1, 1957.

Sec. 28.402 Good Middling. Good Middling shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Good Middling, effective August 1, 1954."

Sec. 28.403 Strict Middling. Strict Middling shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Strict Middling, effective August 15, 1953."

Sec. 28.404 Middling. Middling shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Middling, effective August 15, 1953."

Sec. 28.405 Strict Low Middling. Strict Low Middling shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Strict Low Middling, effective August 15, 1953."

Sec. 28.406 Low Middling. Low Middling shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Low Middling, effective August 15, 1953."

Sec. 28.407 Strict Good Ordinary. Strict Good Ordinary shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Strict Good Ordinary, effective August 15, 1953."

Sec. 28.408 Good Ordinary. Good Ordinary shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Good Ordinary, effective August 15, 1953."

SPOTTED COTTON

Sec. 28.409 Good Middling Spotted. Good Middling Spotted shall be American upland cotton which in leaf and preparation is Good Middling, but which in spot or color or both is between Good Middling and Good Middling Tinged.

Sec. 28.410 Strict Middling Spotted. Strict Middling Spotted shall be American upland cotton which in leaf and preparation is Strict Middling, but which in spot or color or both is between Strict Middling and Strict Middling Tinged.

Sec. 28.411 Middling Spotted. Middling Spotted shall be American upland cotton which in leaf and preparation is Middling, but which in spot or color or both is between Middling and Middling Tinged.

Sec. 28.412 Strict Low Middling Spotted. Strict Low Middling Spotted shall be American upland cotton which in leaf and preparation is Strict Low Middling, but which in spot or color or both is between Strict Low Middling and Strict Low Middling Tinged.

Sec. 28.413 Low Middling Spotted. Low Middling Spotted shall be American upland cotton which in leaf and preparation is Low Middling, but which in spot or color or both is between Low Middling and Low Middling Tinged.

TINGED COTTON

Sec. 28.414 Good Middling Tinged. Good Middling Tinged shall be American upland cotton which in color, leaf, and preparation is better than Strict Middling Tinged.

Sec. 28.415 Strict Middling Tinged. Strict Middling Tinged shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Strict Middling Tinged, effective August 15, 1953."

Sec. 28.416 Middling Tinged. Middling Tinged shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Middling Tinged, effective August 15, 1953."

Sec. 28.417 Strict Low Middling Tinged. Strict Low Middling Tinged shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Strict Low Middling Tinged, effective August 15, 1953."

Sec. 28.418 Low Middling Tinged. Low Middling Tinged shall be American upland cotton which in color, leaf, and preparation is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Upland, Low Middling Tinged, effective August 15, 1953."

YELLOW STAINED COTTON

Sec. 28.419 Good Middling Yellow Stained. Good Middling Yellow Stained shall be American upland cotton which in leaf and preparation is Good Middling Tinged, but which in color is deeper than Good Middling Tinged.

Sec. 28.420 Strict Middling Yellow Stained. Strict Middling Yellow Stained shall be American upland cotton which in leaf and preparation is Strict Middling Tinged, but which in color is deeper than Strict Middling Tinged.

Sec. 28.421 Middling Yellow Stained. Middling Yellow Stained shall be American upland cotton which in leaf and preparation is Middling Tinged, but which in color is deeper than Middling Tinged.

GRAY COTTON

Sec. 28.422 Good Middling Gray. Good Middling Gray shall be American upland cotton which in leaf and preparation is Good Middling, but which is more gray in color than Good Middling and no darker in color than the duldest bale in Strict Low Middling.

Sec. 28.423 Strict Middling Gray. Strict Middling Gray shall be American upland cotton which in leaf and preparation is Strict Middling, but which is more gray in color than Strict Middling and no darker in color than the duldest bale in Low Middling.

Sec. 28.424 Middling Gray. Middling Gray shall be American upland cotton which in leaf and preparation is Middling, but which is more gray in color than Middling and no darker in color than the dullest bale in Strict Good Ordinary.

Sec. 28.425 Strict Low Middling Gray. Strict Low Middling Gray shall be American upland cotton which in leaf and preparation is Strict Low Middling, but which is more gray in color than Strict Low Middling and no darker in color than the dullest bale in Good Ordinary.

GENERAL

Sec. 28.426 General. American upland cotton which in color, leaf, and preparation is within the range of the standards established by this subpart, but which contains a combination of color, leaf, and preparation not within any one of the standards set out in this subpart, shall be designated according to the standard which is equivalent to, or if there be no exact equivalent is next below, the average of all the factors that determine the grade of the cotton: Provided, That in no event shall the grade assigned to any cotton or sample be more than one grade higher than the grade classification of the color or leaf contained therein.

Sec. 28.427 Alternate title for standards. Since these standards have been agreed upon and accepted by the leading European cotton associations and exchanges, they may also be termed and referred to as the "Universal Standards for American Cotton."

OFFICIAL COTTON STANDARDS OF THE UNITED STATES FOR THE GRADE OF AMERICAN EGYPTIAN COTTON

Sec. 28.501 Grade No. 1. Grade No. 1 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 1, effective August 1, 1957."

Sec. 28.502 Grade No. 2. Grade No. 2 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 2, effective August 1, 1957."

Sec. 28.503 Grade No. 3. Grade No. 3 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 3, effective August 1, 1957."

Sec. 28.504 Grade No. 4. Grade No. 4 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 4, effective August 1, 1957."

Sec. 28.505 Grade No. 5. Grade No. 5 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 5, effective August 1, 1957."

Sec. 28.506 Grade No. 6. Grade No. 6 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 6, effective August 1, 1957."

Sec. 28.507 Grade No. 7. Grade No. 7 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 7, effective August 1, 1957."

Sec. 28.508 Grade No. 8. Grade No. 8 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 8, effective August 1, 1957."

Sec. 28.509 Grade No. 9. Grade No. 9 shall be American Egyptian cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, American Egyptian, Grade No. 9, effective August 1, 1957."

Sec. 28.510 Grade No. 10. American Egyptian cotton which in grade is inferior to grade No. 9 shall be designated as "American Egyptian Grade No. 10."

OFFICIAL STANDARDS OF THE UNITED STATES FOR THE GRADES OF SEA ISLAND COTTON

Sec. 28.551 Grade 1. Grade No. 1 shall be Sea Island cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, Sea Island, Grade No. 1, effective August 10, 1939."

Sec. 28.552 Grade 2. Grade No. 2 shall be Sea Island cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, Sea Island, Grade No. 2, effective August 10, 1939."

Sec. 28.553 Grade 3. Grade No. 3 shall be Sea Island cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, Sea Island, Grade No. 3, effective August 10, 1939."

Sec. 28.554 Grade 4. Grade No. 4 shall be Sea Island cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, Sea Island, Grade No. 4, effective August 10, 1939."

Sec. 28.555 Grade 5. Grade No. 5 shall be Sea Island cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, Sea Island, Grade No. 5, effective August 10, 1939."

Sec. 28.556 Grade 6. Grade No. 6 shall be Sea Island cotton which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in the District of Columbia in a container marked "Original Official Cotton Standards of the United States, Sea Island, Grade No. 6, effective August 10, 1939."

Sec. 28.557 Intermediate grades. Sea Island cotton which in grade is between any two adjoining grades shall be designated by the word "Grade" and the grade number of the higher of such two grades, followed by the fraction "1/2."

Sec. 28.558 Below Grade 6. Sea Island cotton which in grade is inferior to Grade No. 6 shall be designated "Below Grade No. 6."

Sec. 28.559 Extraneous matter. The grade assigned to Sea Island cotton which contains appreciable quantities of seed, seed kernels, or sand shall be that which most nearly approximates its grade value in terms of the respective grades herein defined.

Sec. 28.560 Permissive use. Until their effective date, August 10, 1939, the foregoing standards may be used as permissive standards in the purchase and sale of Sea Island cotton.

TENTATIVE STANDARDS FOR THE PREPARATION OF LONG-STAPLE COTTON

Sec. 28.591 Set of samples; Grade No. 4. The tentative standards for preparation of American upland long-staple cotton of the Grade No. 4 or Strict Middling shall be the preparation of a set of samples in the custody of the United States Department of Agriculture, in the city of Washington, in containers marked, respectively:

(a) Original Tentative Standard of the United States for A Preparation of Long-Staple American Upland cotton of the Grade No. 4 or Strict Middling (otherwise designated as Preparation Type A for Strict Middling) as announced May 20, 1929.

(b) Original Tentative Standard of the United States for B Preparation of Long-Staple American Upland cotton of the Grade No. 5 or Middling (otherwise designated as Preparation Type B for Middling) as announced May 20, 1929.

(c) Original Tentative Standard of the United States for C Preparation of Long-Staple American Upland cotton of the Grade No. 4 or Strict Middling (otherwise designated as Preparation Type C for Strict Middling) as announced May 20, 1929.

Sec. 28.592 Set of samples; Grade No. 5. The tentative standards for preparation of American upland long-staple cotton of the Grade No. 5 or Middling shall be the preparation of a set of samples in the custody of the United States Department of Agriculture in the city of Washington, in containers marked, respectively:

(a) Original Tentative Standard of the United States for A Preparation of Long-Staple American Upland cotton of the Grade

No. 5 or Middling (otherwise designated as Preparation Type A for Middling) as announced May 20, 1929.

(b) Original Tentative Standard of the United States for B Preparation of Long-Staple American Upland cotton of the Grade No. 5 or Middling (otherwise designated as Preparation Type B for Middling) as announced May 20, 1929.

(c) Original Tentative Standard of the United States for C Preparation of Long-Staple American Upland cotton of the Grade No. 5 or Middling (otherwise designated as Preparation Type C for Middling) as announced May 20, 1929.

Sec. 28.593 Set of samples; Grade No. 6. The tentative standards for preparation of American upland long-staple cotton of the Grade No. 6 or Strict Low Middling shall be the preparation of a set of samples in the custody of the United States Department of Agriculture, in the city of Washington, in containers marked, respectively:

(a) Original Tentative Standard of the United States for A Preparation of Long-Staple American Upland cotton of the Grade No. 6 or Strict Low Middling (otherwise designated as Preparation Type A for Strict Low Middling) as announced May 20, 1929.

(b) Original Tentative Standard of the United States for B Preparation of Long-Staple American Upland cotton of the Grade No. 6 or Strict Low Middling (otherwise designated as Preparation Type B for Strict Low Middling) as announced May 20, 1929.

(c) Original Tentative Standard of the United States for C Preparation of Long-Staple American Upland cotton of the Grade No. 6 or Strict Low Middling (otherwise designated as Preparation Type C for Strict Low Middling) as announced May 20, 1929.

Sec. 28.594 Long-Staple cotton; definition. The term long-staple cotton, as used in this subpart, shall, until further notice, be construed to mean cotton which is 1-1/8 inches and above in length of staple.

OFFICIAL COTTON STANDARDS OF THE UNITED STATES FOR FIBER FINENESS AND MATURITY

Sec. 27.210 Standards for fiber fineness and maturity of American upland cotton. The official cotton standards of the United States for fiber fineness and maturity of American upland cotton, for the purposes of the cotton futures legislation in the Internal Revenue Code of 1954, shall be the measure of such qualities, in combination, provided by the use of the Micronaire instrument, model 60600 (or other model used by the Department of Agriculture giving the same results) in accordance with the procedure specified in sec. 27.212 (subject to any changes in such procedure made by amendments of sec. 27.212 which do not perceptibly affect the results obtained).

Sec. 27.211 Terms of designation. The fiber fineness and maturity of any American upland cotton shall be designated by the scale reading shown on the Micronaire instrument for the specimen of the cotton, as determined under sec. 27.212, e. g., 4.1, 4.2, 4.3, or 4.4.

Sec. 27.212 Procedure for use of Micronaire instrument. In determining in terms of Micronaire scale units, the fiber fineness and maturity, in combination, of American upland cotton, the following procedure shall apply:

(a) Facilities and equipment shall include:

(1) Laboratory controlled atmospheric conditions of 65 percent relative humidity ± 2 and a temperature of 70° F. ± 2 .

(2) Micronaire instrument used by the Department of Agriculture, complete with accessories, including:

(i) Calibrating pressure manometer or similar device used by the Department of Agriculture.

(ii) Two calibrating orifices (one fine and one coarse).

(iii) Special scale for indicating the float position in the instrument flow tube. (Curvilinear scale for American upland cotton adopted September 1950 by the Department of Agriculture, or its equivalent.)

(iv) A continuous supply of compressed air with a minimum line pressure of 65 pounds per square inch.

(3) Scales suitable for accurately weighing 50.0 grain specimens.

(b) Calibration of the Micronaire instrument shall be performed as described in this paragraph. The instrument, which shall be set up in accordance with the manufacturer's instructions and connected to a continuous supply of compressed air with a minimum line pressure of 65 pounds per square inch, shall be checked each day before being operated, as follows:

(1) The air shall be allowed to flow through the instrument for a period of 5 minutes before calibration.

(2) The regulating valve or valves shall be adjusted to obtain proper pressures in accordance with the manufacturer's instructions.

(3) The calibration screws on the instrument shall be adjusted until the fine and coarse calibration orifices produce readings on the instrument which coincide with the lower and upper calibration lines, respectively, on the scale and at the same time maintain the proper pressure.

(c) An untreated specimen from the sample of cotton shall be tested. The specimen shall be taken from the center of both sides of each sample to be tested. The specimen shall weigh 50.0 grains, except that if the Micronaire testing is conducted under conditions other than those specified in paragraph (a) (1) of this section, the specimen shall be the equivalent in weight to a specimen weighing 50.0 grains under the conditions specified in said paragraph.

(d) Testing of the cotton specimen shall be performed as follows:

(1) The weighed specimen shall be tested in a properly calibrated instrument. (See paragraph (b) of this section on calibration.)

(2) The specimen shall be inserted into the specimen holder of the instrument so that the mass of fibers is well distributed across the area of the specimen holder.

(3) The plunger shall be pushed down on the specimen until the flange of the plunger rests against the shoulder of the specimen holder and remains in contact.

(4) The air shall then be allowed to flow through the specimen in accordance with the method of operation of the instrument.

(5) The scale reading shall be determined at the uppermost edge of the float in the flow tube when the float becomes stable.

Sec. 27.313 Applicability of standards for fiber fineness and maturity of American upland cotton. The standards provided for in sec. 27.210 for the fiber fineness and maturity of American upland cotton shall be official cotton standards of the United States for purposes of the cotton futures legislation in the Internal Revenue Code of 1954, but not for the purposes of the United States Cotton Standards Act, as amended (7 U. S. C. 51, 52-65).

OFFICIAL COTTON LINTERS STANDARDS OF THE UNITED STATES FOR GRADE

Sec. 28.201 Grade 1. Grade 1 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 1, effective July 1, 1956."

Sec. 28.202 Grade 2. Grade 2 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 2, effective July 1, 1956."

Sec. 28.203 Grade 3. Grade 3 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 3, effective July 1, 1956."

Sec. 28.204 Grade 4. Grade 4 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 4, effective July 1, 1956."

Sec. 28.205 Grade 5. Grade 5 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 5, effective July 1, 1956."

Sec. 28.206 Grade 6. Grade 6 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 6, effective July 1, 1956."

Sec. 28.207 Grade 7. Grade 7 shall be United States cotton linters which in grade is within the range represented by a set of samples in the custody of the United States Department of Agriculture in a container marked "Original Official Cotton Linters Standard of the United States, Grade 7, effective July 1, 1956."

Sec. 28.208 Chemical Grade. United States cotton linters which in grade are below Grade 7 shall be designated as "Chemical Grade."

OFFICIAL COTTON LINTERS STANDARDS OF UNITED STATES FOR STAPLE

Sec. 28.215 Staple 1. Staple 1 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 1, effective July 1, 1957."

Sec. 28.216 Staple 2. Staple 2 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 2, effective July 1, 1957."

Sec. 28.217 Staple 3. Staple 3 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of

Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 3, effective July 1, 1957."

Sec. 28.218 Staple 4. Staple 4 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 4, effective July 1, 1957."

Sec. 28.219 Staple 5. Staple 5 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 5, effective July 1, 1957."

Sec. 28.220 Staple 6. Staple 6 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 6, effective July 1, 1957."

Sec. 28.221 Staple 7. Staple 7 shall be United States cotton linters which in staple is within the range represented by a quantity of cotton linters in the custody of the United States Department of Agriculture marked "Original Official Cotton Linters Standard of the United States, Staple 7, effective July 1, 1957."

Sec. 28.222 Below 7 Staple. Cotton linters which in staple is below staple 7 will be designated as "Below 7" staple.

